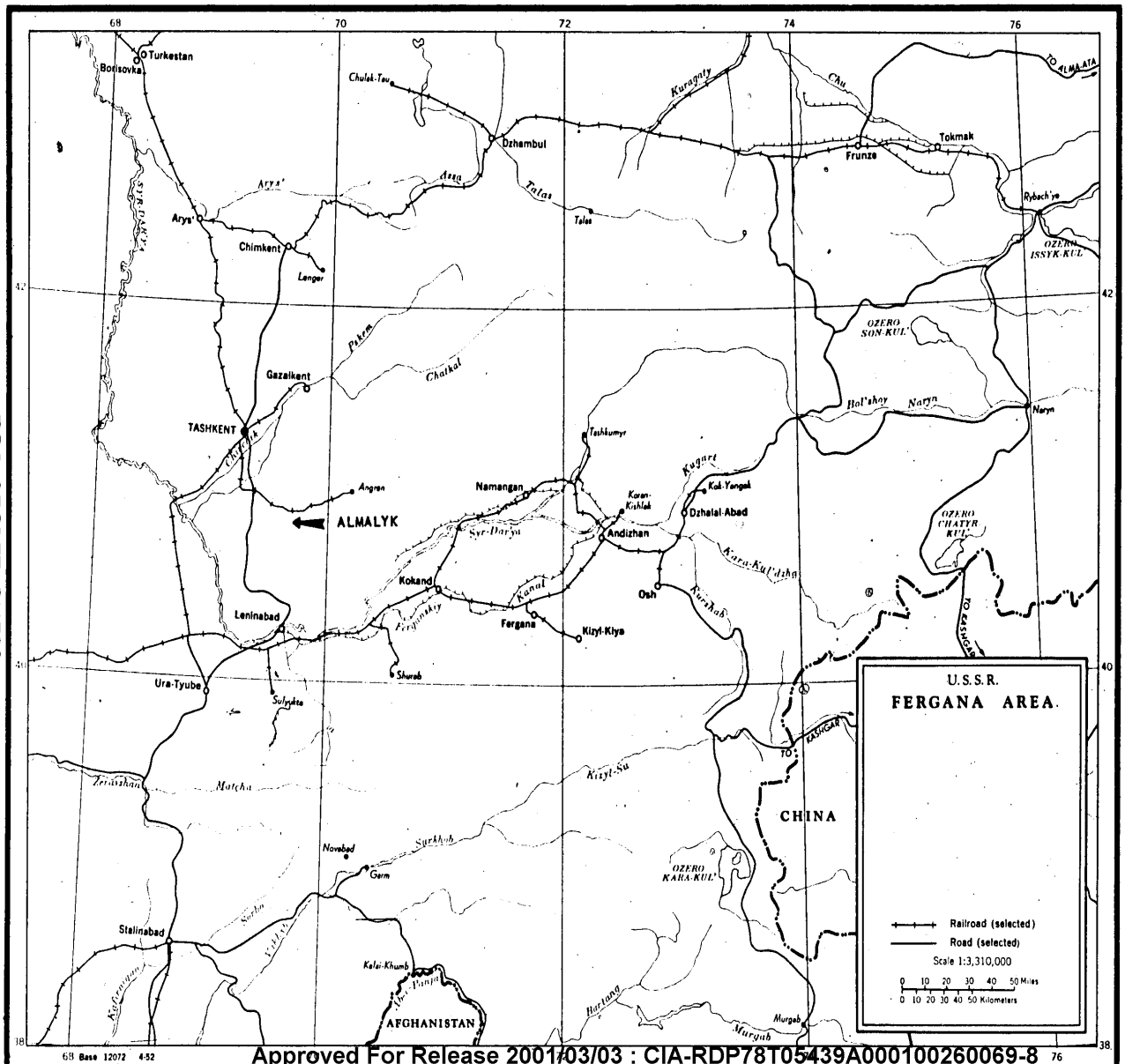
Next 1 Page(s) In Document Exempt



68 Base 12072 4-52

PIC/R-1/60

NON-FERROUS METALLURGICAL COMBINE ALMALYK, USSR

A non-ferrous metallurgical combine is being developed in the vicinity of Almalyk (Figure 1), approximately 50 rail miles SSE of Tashkent in the Kuraminskiy mountain range.

25X1D [redacted] shows that an ore concentration plant

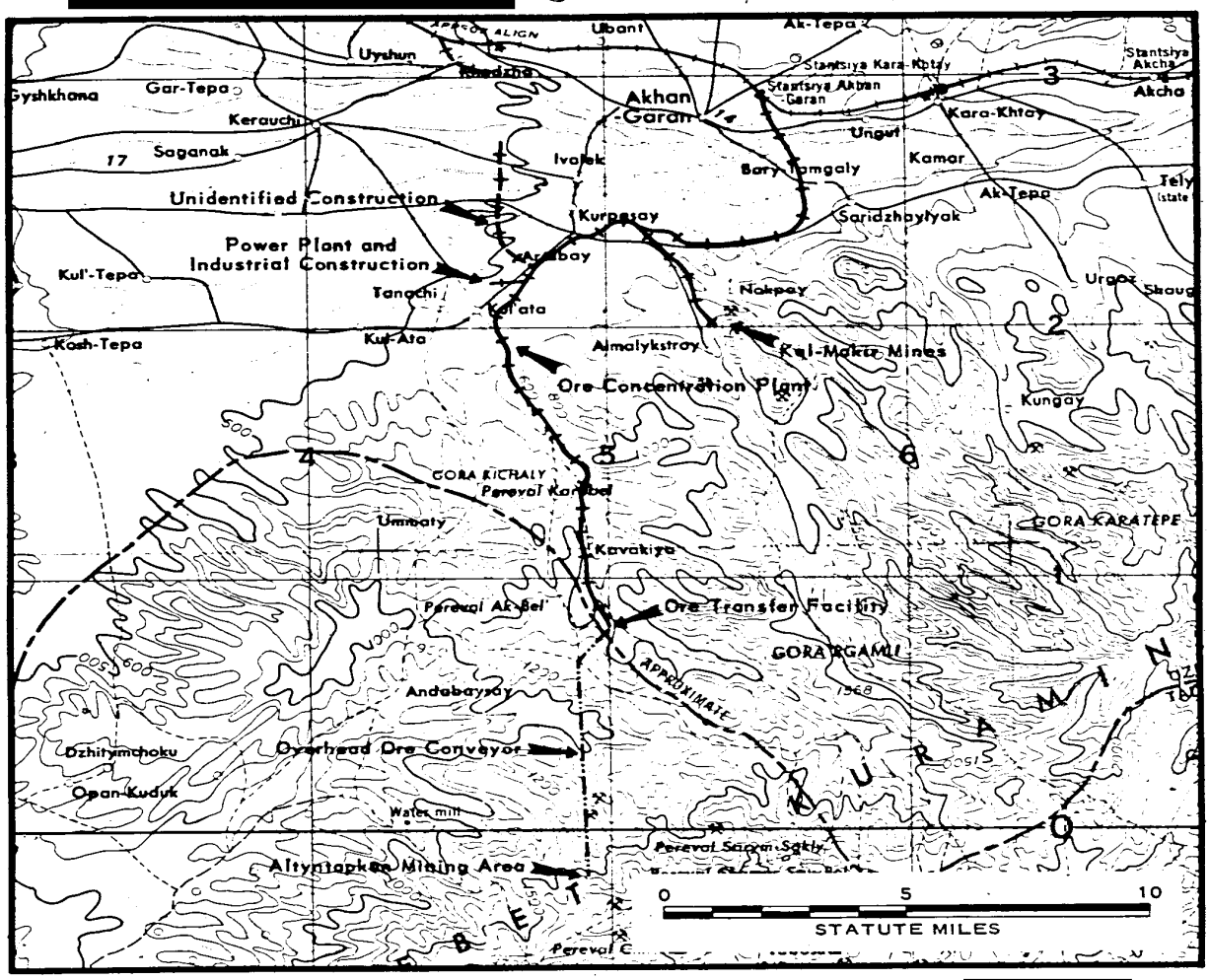


FIGURE 1. NON-FERROUS METALLURGICAL COMBINE, ALMALYK, USSR [redacted]

25X1D

(Figure 2 and 5) is in operation south of Almalyk, and that construction of a thermal power plant and an unidentified industry (Figure 2 and 4) is nearing completion on the west edge of town. Another area of construction (Figure 2), located a mile north of the power plant, is notable for its large excavations and was previously reported in CIA/HTA JPIB 1-58, dated 3 January 1958, and Air DPIR T-58-37, dated September 1958. There is no photographic evidence that either a smelter or refinery is in operation or under construction in the Almalyk area.

Two bench mines are being exploited at the east edge of Almalyk, approximately 8 rail miles from the ore concentration plant. These apparently comprise the Kal'makir mines, which reportedly extract copper-molybdenum ores.

Another bench mine and at least two underground mines are located approximately 15 miles south of Almalyk, at Altyntapkan (Figure 3). This area reportedly is extracting lead-zinc ores. Ore from the Altyntapkan mines is transported approximately 8 miles by overhead bucket conveyor to a railroad terminus on the Kara-Kiya river, where it is transferred to railroad cars. There is evidence of widespread test-boring throughout the Almalyk-Altyntapkan area.

Photography also confirms reports that Almalyk, which was a small village prior to World War II, has developed into a mining city with a population estimated at 50,000 persons. A support area at the northwest edge of the city contains facilities for the maintenance, repair and storage of mining vehicles and equipment, and for the preparation of construction materials. There is a railroad locomotive and car repair facility, a saw mill, a vehicle maintenance and repair area, a possible ferro-concrete plant, a probable refractory, and several areas of open storage.

More than 100 new barracks-type buildings, apparently for housing workers, are evident in the Altyntapkan mining area. Approximately 5 miles SE of Altyntapkan, on the southern slopes of the Kuraminskiy range, is the uranium mining town of Taboshar, which will be described in a forthcoming report on uranium mining and milling.

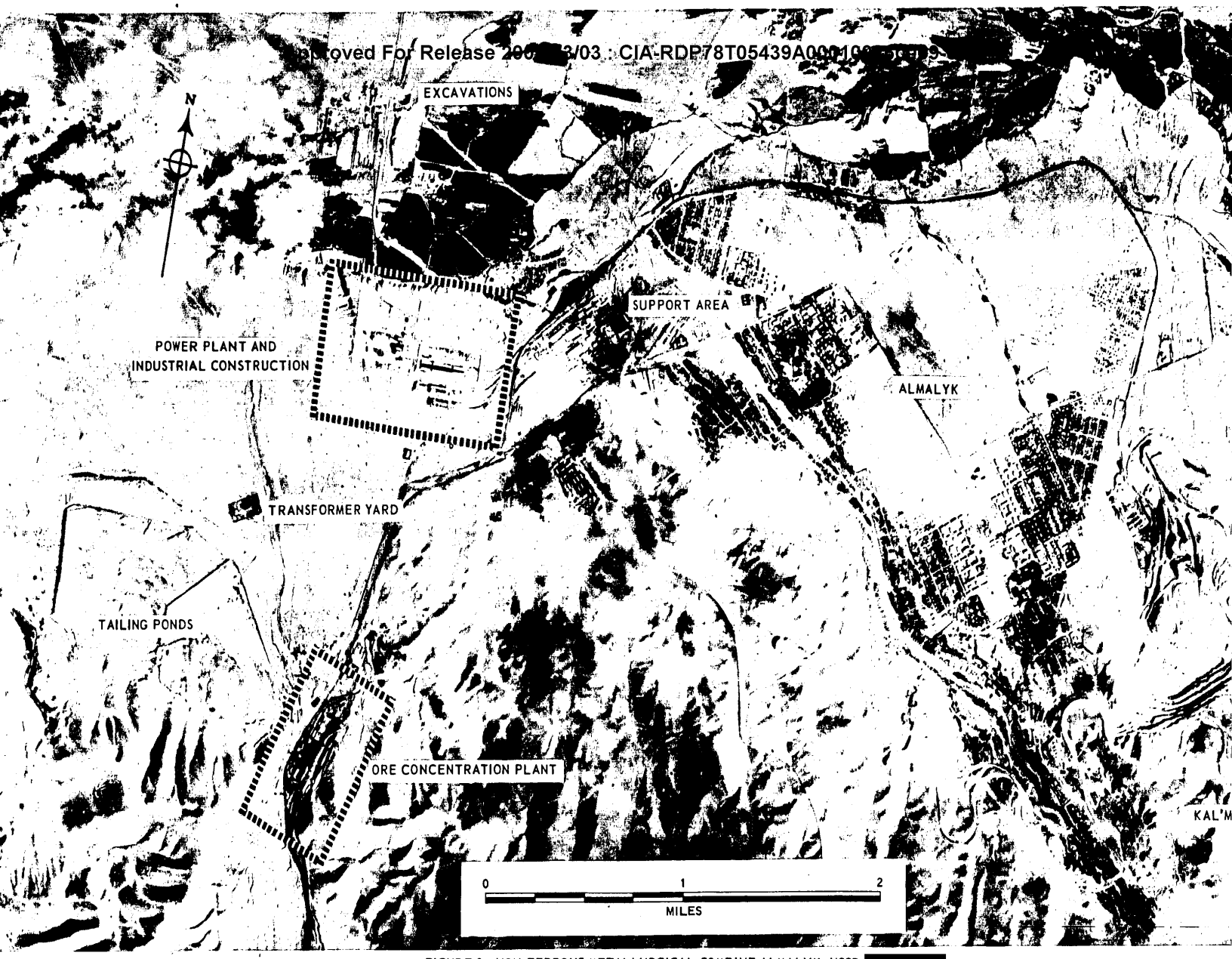


FIGURE 2. NON-FERROUS METALLURGICAL COMBINE, ALMALYK, USSR [redacted]

Approved For Release 2001/03/03 : CIA-RDP78T05439A000100260069-8

25X1D

PIG/R-1/60

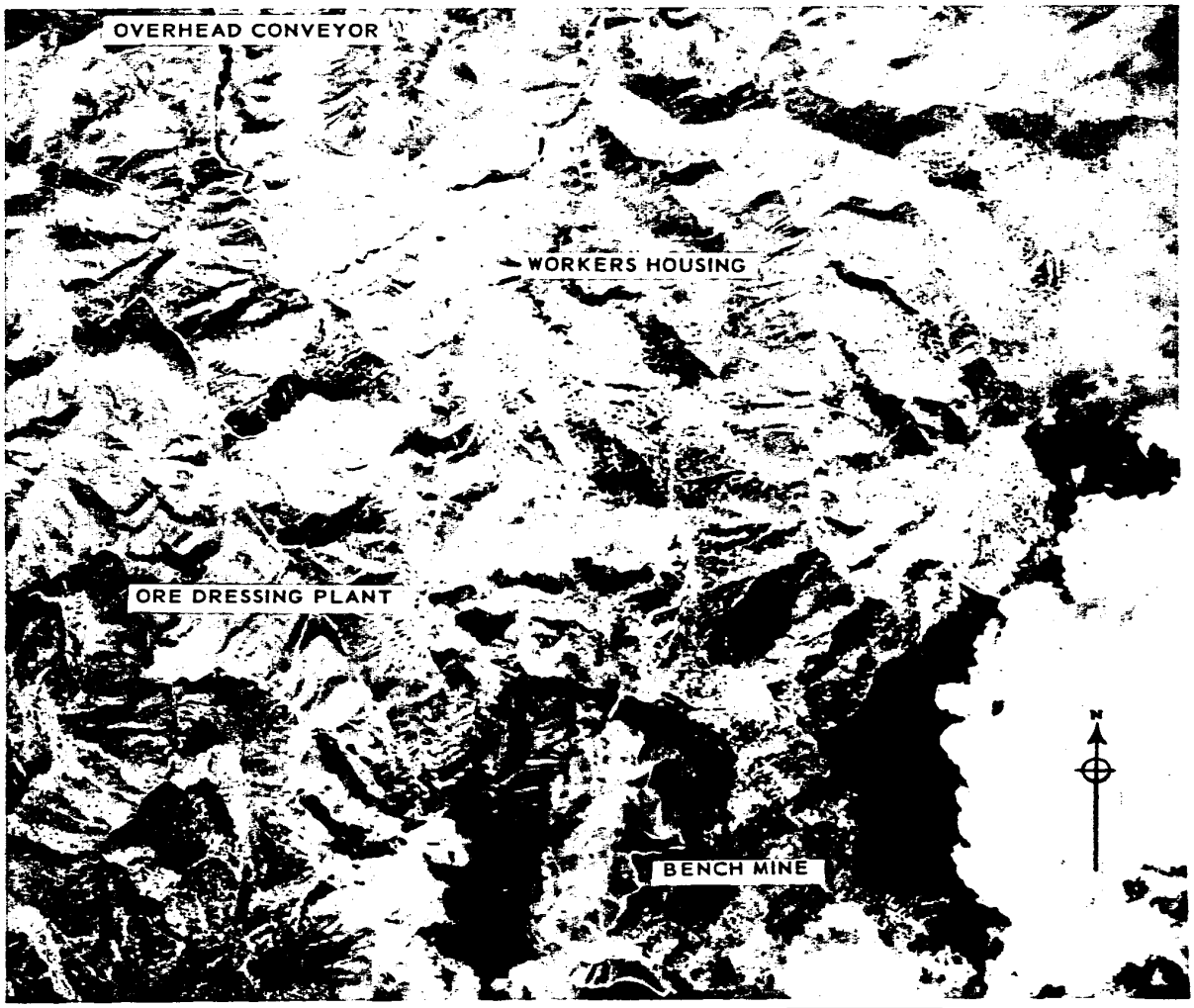


FIGURE 3. MINING AREA AT ALTYNTAPKAN, USSR [redacted] 25X1D

POWER PLANT AND INDUSTRIAL CONSTRUCTION

KEY TO ANNOTATIONS
(Figure 4)

1. Coal unloading and storage area, rail-served, with excavation 425' long and 40' wide.

2. Probable hoist house, 40' x 20', connected by overhead conveyor under construction with coal preparation building (item 3) and probably by underground conveyor with coal storage area (item 1).
3. Coal preparation building, 90' x 25', connected by conveyor under construction with boiler house (item 10).
4. Storage building, 100' x 40'.
5. Workshop, 120' x 45'.
6. Building with two sections, single story 80' x 40', multi-story 50' x 30'.
7. Stack, base diameter 20-25', height 225'.
8. Probable storage building, 100' x 40'.
9. Cooling tower under construction, octagonal in shape, base diameter 100-110', height 175'.
10. Boiler house, generator hall and offices under construction, over-all dimensions 240' x 190'.
11. Probable substation under construction. One section, 65' x 45', connected by catwalk with generator hall; second section 110' x 30'.
12. Two storage buildings, 120' x 40' and 100' x 40', with open storage surrounding buildings.
13. Two tanks, each approximately 25' diameter.
14. Fenced storage area. This area contains: six rail-served storage buildings 140' x 30', 440' x 60', 230' x 60', 230' x 60', 460' x 60' and 240' x 65'; one probable maintenance building 135' x 50'; one administrative building 70' x 40'; four probable earth-covered tanks 60-70' diameter, connected by pipeline with small pumphouse, 25' x 15'; and an open storage area covering approximately 300,000 sq. ft.
15. Irregularly-shaped building. Main section, 140' x 125', has flat roof with modified monitor 60' x 20' and six vents or short stacks. Pitched-roofed section at west end, 140' x 60', has probable conveyor leaving building at north end. Flat-roofed section at east end 110' x 35'.
16. Building, 400' x 160', with modified monitors and vents or short stacks on roof, and with section at west end 95' x 30'. Rail spur enters building at east end.
17. Workshop, 180' x 70'.
18. Excavation for probable underground steam lines.
19. Building under construction, 450' x 140', with end section 180' x 65'. Monitor 60' wide runs length of 450' section.
20. Storage building, 260' x 50'.

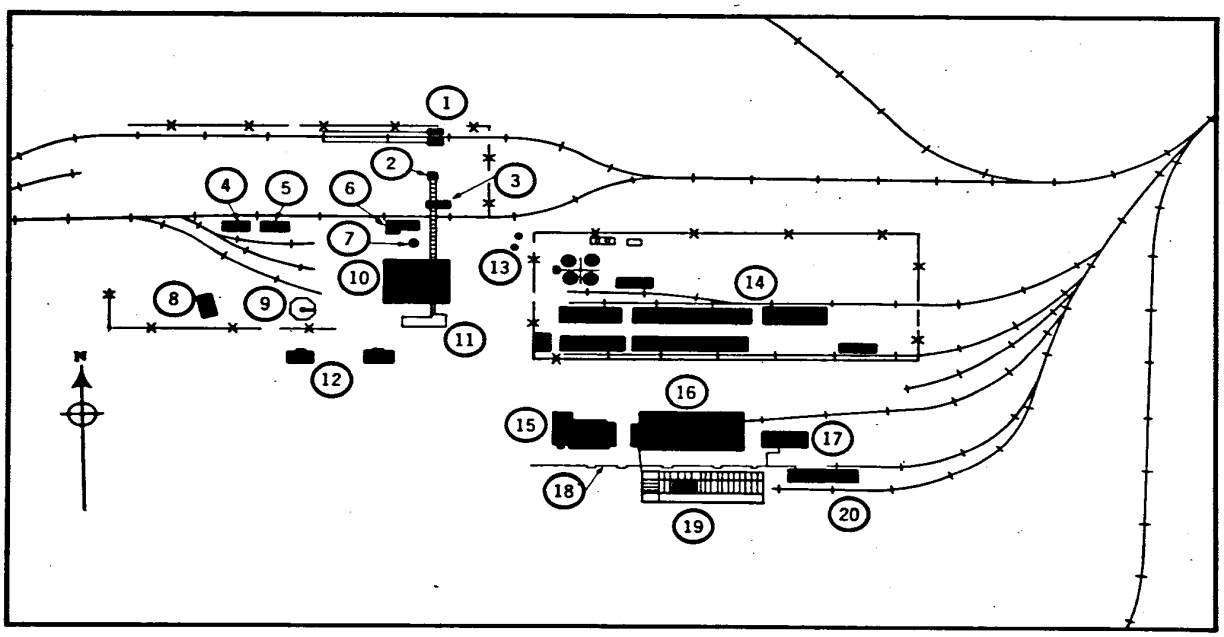
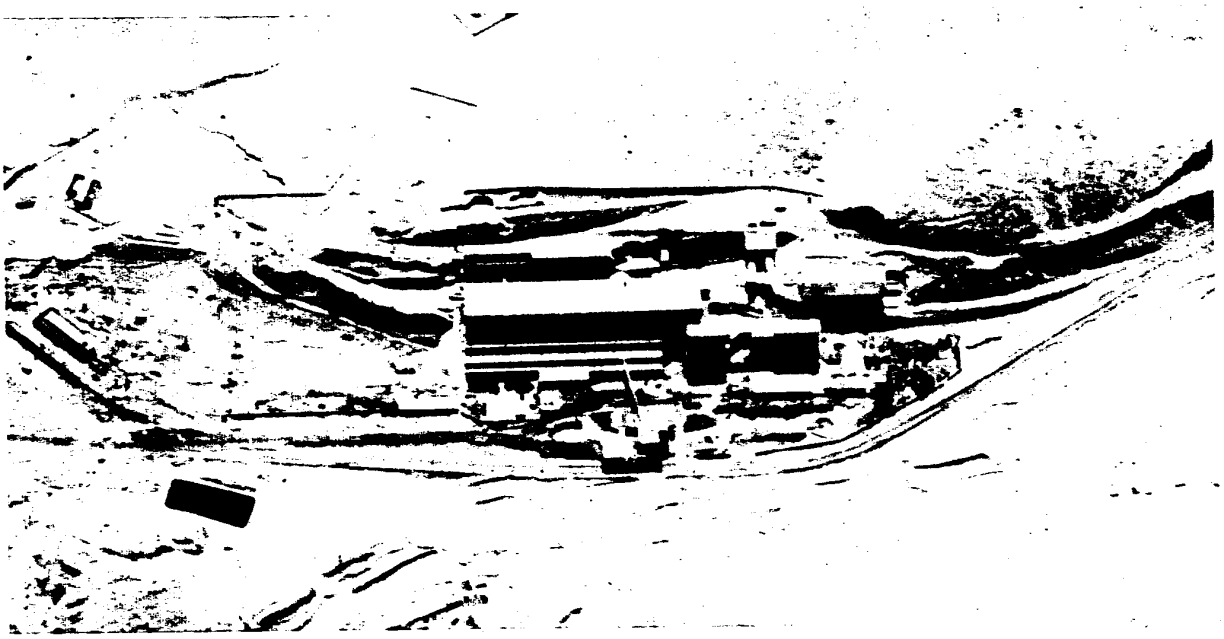


FIGURE 4. POWER PLANT AND INDUSTRIAL CONSTRUCTION

PIC/R-1/60

ORE CONCENTRATION PLANT
KEY TO ANNOTATIONS
(Figure 5)

1. Reagent storage and mixing building, roof area 21,200 sq. ft. Connected by conveyor to ore concentration building (item 7).
2. Ore receiving facility. Receiving chute leads to building, 40' x 20', connected by conveyor to ore concentration building.
3. Ore receiving and primary crushing building, 85' x 45'.
4. Ore storage building, 225' x 100', connected by two conveyors to primary crushing building.
5. Secondary crushing building, 180' x 70'. Conveyor extending from east side of building probably continues underground to ore storage building.
6. Ore storage and regrind building, 120' x 100', connected by three conveyors with secondary crushing building, and by one conveyor with ore concentration building.
7. Ore concentration building, roof area 171,800 sq. ft.
8. Probable shop, 65' x 45'.
9. Administration and personnel building, 125' x 35'.
10. Maintenance building, 80' x 50'.
11. Steam plant, 50' x 50'.
12. Ore concentrate storage and loading building. Still under construction, final dimensions estimated to be 160' x 40'.
13. Ore concentrate drying building, irregularly-shaped, roof area 6,925 sq. ft. Connected by pipeline with ore concentration building.
14. Storage building, 160' x 55'.



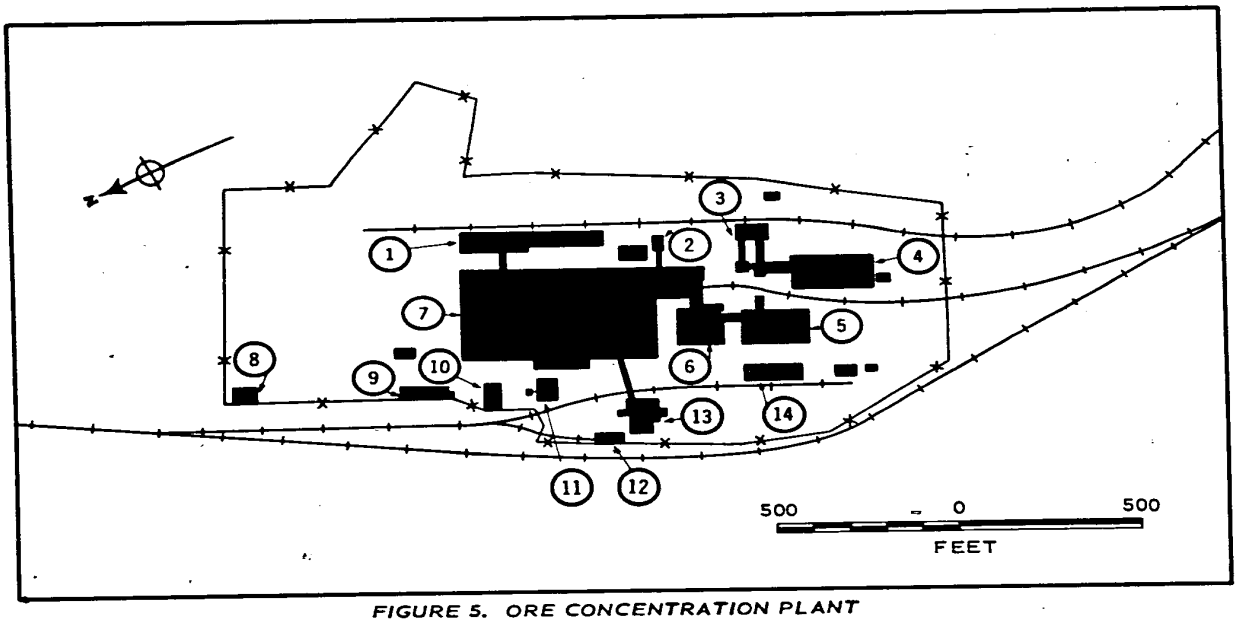


FIGURE 5. ORE CONCENTRATION PLANT

PIC/R-1/60

REQUIREMENT: Prepared in answer to CIA Requirement RR/HTA/E/R117/58 requesting a detailed description of the Almalyk non-ferrous metallurgical combine.

25X1D [redacted]

MAP DATA:

USAF Pilotage Chart 328D, scale 1:500,000. (C)
WAC 328, scale 1:1,000,000. (U)
AMS Series N502, Sheet NK 42-11, 1957, scale 1:250,000. (U)

COORDINATES: 40°50'N
69°38'E